

FAST - [john1.wsp:1]

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Drafts

Pending

Active

L2: (1990) polyvinylamine

L3: (34675) hydrogel

L4: (179) 12 and 13

L5: (475708) foam

L6: (2945650) gas

L7: (255728) inert adj gas

L10: (2) 17 and 18

L9: (17) 16 and 18

L8: (47) 14 and 15

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absorbent, hydrogel-forming, slightly network crosslinked polymer materials. The polymerization conditions are also discussed in more detail in the three above-referenced patents. Such polymerization conditions generally involve heating (thermal activation techniques) to a polymerization temperature from about 0.degree. C. to about 100.degree. C., more preferably from about 5.degree. C. to about 40.degree. C. Polymerization conditions under which the aqueous reaction mixture is maintained can also include, for example, subjecting the reaction mixture, or portions thereof, to any conventional form of polymerization activating irradiation. Radioactive, electronic, ultraviolet, or electromagnetic radiation are alternative conventional polymerization techniques. The resulting polymerization product is a swollen water-insoluble hydrogel. The swollen water-insoluble hydrogel is used in some preferred processes for making porous absorbent materials as described hereinafter.

(71) The acid functional groups of the polymer materials formed in the aqueous reaction mixture are also preferably neutralized. Neutralization can be carried out in any conventional manner which results in at least about 25 mole percent, and more preferably at least about 50 mole percent, of the total monomer utilized to form the polymer material being acid group-containing monomers that are neutralized with a salt-forming cation. Such salt-forming cations include, for example, alkali metals, ammonium, substituted ammonium and amines as discussed in further detail in the above-references U.S. Pat. No. Re. 32,649.

(72) While it is preferred that the crosslinked polyelectrolyte be

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	U	I	Document ID	Issue Date	Pages	Title	Current OR	Current XREF	Retrieval C	Inventor	S	C	P	42
7	<input type="checkbox"/>	<input type="checkbox"/>	US 20050070616 A1	20050331	19	Foams made from water-absorbing, basic	521/50			Champ, Samantha et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<input type="checkbox"/>	<input type="checkbox"/>	US 20040254550 A1	20041216	18	Temperature change element for use in personal care	604/361			Huang, Lei et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	<input type="checkbox"/>	<input type="checkbox"/>	US 20030199642 A1	20031023	32	Use of hydrophilic graft copolymers containing	525/419			Schneider, Tanja et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	<input type="checkbox"/>	<input type="checkbox"/>	US 20030135172 A1	20030717	27	Absorbent article	604/359	604/368		Whitmore, Darryl L. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	<input type="checkbox"/>	<input type="checkbox"/>	US 20020165288 A1	20021107	11	Absorbent compositions	521/50			Frenz, Volker et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	<input type="checkbox"/>	<input type="checkbox"/>	US 20020128618 A1	20020912	12	Hydrogels	604/368			Frenz, Volker et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	<input type="checkbox"/>	<input type="checkbox"/>	US 6864330 B2	20050308	27	Use of hydrophilic graft copolymers containing	525/479	523/105; 525/191;		Schneider, Tanja et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	<input type="checkbox"/>	<input type="checkbox"/>	US 6849665 B2	20050201	10	Absorbent compositions	521/64	424/443; 424/444;		Frenz, Volker et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	<input type="checkbox"/>	<input type="checkbox"/>	US 6258996 B1	20010710	52	Mixed-bed ion-exchange hydrogel-forming polymer	604/368	604/358; 604/367		Goldman, Stephen Allen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	<input type="checkbox"/>	<input type="checkbox"/>	US 5985432 A	19991116	21	Porous absorbent materials having modified surface	428/304.4	428/403; 428/407;		Wang, Lin et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	<input type="checkbox"/>	<input type="checkbox"/>	US 5851672 A	19981222	21	Absorbent materials having modified surface	428/407	428/402; 428/403;		Wang, Lin et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Ready